

Rev04  
Update: May,23,2022

**DATASHEET**

# Mast Cell Degranulating Peptide

Cat. No.: RP10663

## Overview

<b>Synonyms</b>	MCDP
<b>Description</b>	Mast Cell Degranulating Peptide (MCDP) is a neurotoxic agent isolated from bee venom. It produces a long-term potentiation in the hippocampus. Some studies show that Mast Cell Degranulating Peptide (MCDP) augments the release of excitatory and inhibitory transmitter by an action, which is independent of calcium influx, through voltage-dependent channels. Mast Cell Degranulating Peptide (MCDP) inhibited non-competitively the binding of both radiolabelled dendrotoxin and beta-bungarotoxin but with relatively low potency.
<b>Cas No</b>	32908-73-9
<b>Sequence</b>	{ILE}{LYS}{CYS}{ASN}{CYS}{LYS}{ARG}{HIS}{VAL}{ILE}{LYS}{PRO}{HIS}{ILE}{CYS}{ARG}{LYS}{ILE}{CYS}{GLY}{LYS}{ASN}-NH <sub>2</sub>
<b>Sequence Shortening</b>	IKCNCKRHVIKPHICRKICGKN-NH <sub>2</sub>
<b>Molecular Formula</b>	C <sub>110</sub> H <sub>192</sub> N <sub>40</sub> O <sub>24</sub> S <sub>4</sub>
<b>C Terminal</b>	NH <sub>2</sub>
<b>Disulfide Bridge</b>	Cys3-Cys15, Cys5-Cys19
<b>Molecular Weight</b>	2587.22

## Properties

<b>Purity</b>	> 95%
<b>Solubility</b>	Soluble in water. The contents of this vial have been accurately determined. Both the stopper and the vial have been siliconized. Do not attempt to weight out a smaller portion of the contents.
<b>Form</b>	Lyophilized
<b>Storage</b>	Before using, store the peptide in the DRY form at 0 - 5°C. For best and repeatable results, rehydrate the peptide immediately before using. Do not re-freeze any unused portions.
<b>Note</b>	Mast Cell Degranulating Peptide (MCDP) is a very powerful anti-inflammatory peptide, and have potent neurotoxic action.